

Attorney's Docket No. 621-31

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**COMBINED DECLARATION AND POWER OF ATTORNEY**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL,  
DIVISIONAL, CONTINUATION OR CIP)

As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**This declaration is of the following type: (*check one*)

Original  
 Supplemental  
 Design

National Stage PCT  
 Divisional  
 Continuation  
 Continuation-in-Part (CIP)

**INVENTORSHIP IDENTIFICATION**

**NOTE:** If the inventors are each not the inventors of all the claims an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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**CRYPTOGRAPHIC KEY MANAGEMENT SCHEME**

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the specification of which: (*complete (a), (b) or (c)*)(a)  is attached hereto.(b)  was filed on September 16, 1998 as  
 Serial No. 09/154,133 or  
 Express Mail No. \_\_\_\_\_ as Serial No. not yet known  
and was amended on \_\_\_\_\_. (*If applicable*)(c)  was described and claimed in PCT International Application No. PCT/  
filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_. (*If any*)**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above, and that the filing of said specification, if heretofore filed, was authorized by me.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

**CLAIM OF PRIORITY OF EARLIER FOREIGN APPLICATION(S) UNDER 35 U.S.C. §119(a)-(d)**

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

*(List prior foreign/PCT application(s) filed within 12 months (6 months for design) prior to this U.S. application.)*

**NOTE:** Where item (c) is entered above and the International Application which designated the U.S. claimed priority check item (e), enter the details below and make the priority claim.

COUNTRY (or PCT)	APPLICATION NO.	DATE OF FILING (Day/Month/Year)	PRIORITY CLAIMED UNDER 35 USC §119
			[ ]YES [ ]NO
			[ ]YES [ ]NO

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. §119(e)**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

*(List prior U.S. provisional applications.)*

PROVISIONAL APPLICATION NO.	FILING DATE (Day/Month/Year)
60/059,082	09/16/97
60/059,839	09/16/97

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. 120**

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

*(List prior U.S. applications or PCT international applications designating the U.S. for benefit under 35 U.S.C. §120.)*

<b>U.S. APPLICATIONS</b>		<b>STATUS (Check One)</b>		
<b>U.S. SERIAL NO.</b>	<b>U.S. FILING DATE (Day/Month/Year)</b>	<b>Patented</b>	<b>Pending</b>	<b>Abandoned</b>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>PCT APPLICATIONS DESIGNATING THE U.S.</b>		<b>STATUS (Check One)</b>		
<b>PCT APPLN. NO.</b>	<b>PCT FILING DATE (Day/Month/Year)</b>	<b>U.S. SERIAL NOS. ASSIGNED (If any)</b>	<b>Patented</b>	<b>Pending</b>
PCT/			<input type="checkbox"/>	<input type="checkbox"/>
PCT/			<input type="checkbox"/>	<input type="checkbox"/>

**35 USC 119 PRIORITY CLAIM, IF ANY, FOR ABOVE LISTED U.S./PCT APPLICATIONS**

<b>PRIORITY APPLICATION NO.</b>	<b>PRIORITY COUNTRY</b>	<b>FILING DATE (Day/Month/Year)</b>	<b>ISSUE DATE (Day/Month/Year)</b>

**POWER OF ATTORNEY**

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office in connection therewith:

Charles R. Hoffmann, Reg. No. 24,102; Ronald J. Baron, Reg. No. 29,281; Gerald T. Bodner, Reg. No. 30,449; Alan M. Sack, Reg. No. 31,874; A. Thomas Kammer, Reg. No. 28,226; Arlene D. Morris, Reg. No. 32,657; R. Glenn Schroeder, Reg. No. 34,720; Glenn T. Henneberger, Reg. No. 36,074; Irving N. Feit, Reg. No. 28,601; Jessica H. Tran, Reg. No. 40,846; Anthony E. Bennett, Reg. No. 40,910; Gregory W. Bachmann, Reg. No. 41,593; Steven T. Zuschlag, Reg. No. 43,309; Susan A. Sipos, Reg. No. 43,128; William D. Schmidt, Reg. No. 39,492; Kevin E. McDermott, Reg. No. 35,946; and Robert C. Morrise, Reg. No. 42,910 each of them of HOFFMANN & BARON, LLP, 350 Jericho Turnpike, Jericho, New York 11753; and Daniel A. Scola, Jr., Reg. No. 29,855; Salvatore J. Abbruzzese, Reg. No. 30,152; Kirk M. Miles, Reg. No. 37,891; Kevin C. Hooper, Reg. No. 40,402; and Robert F. Chisholm, Reg. No. 39,939, each of them of HOFFMANN & BARON, LLP, 1055 Parsippany Boulevard, Parsippany, New Jersey

07054.

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PLEASE SEND CORRESPONDENCE TO:	PLEASE DIRECT TELEPHONE CALLS TO:
Gerald T. Bodner, Esq. HOFFMANN & BARON, LLP 350 Jericho Turnpike Jericho, NY 11753	Gerald T. Bodner (516) 822-3550

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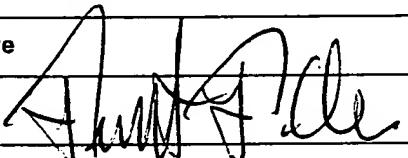
#### DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

#### SIGNATURE(S)

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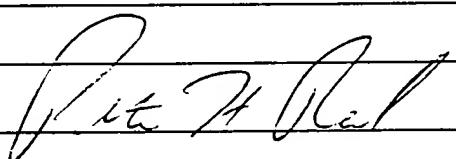
Full Name of Sole or First Inventor:	Timothy OBER
Country of Citizenship:	U.S.
Residence Address:	9 Birch Lane, Atkinson, NH 03811
Post Office Address:	Same as Above
Date:	11/23/98

Inventor's signature 

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Full Name of Second Joint Inventor:	Peter REED
Country of Citizenship:	U.S.
Residence Address:	1 Bancroft Avenue, Beverly, MA 01915
Post Office Address:	Same as Above
Date:	11/23/98

Inventor's signature 

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NOTE: All above spaces identifying inventors must be completed or deleted before any inventor executes this application

Attorney's Docket No.: 621-31

PATENT

For:  U.S. and/or  Foreign Rights  
For:  U.S. Application;  
[ ] U.S. Provisional Application;  
[ ] U.S. Patent; or  
[ ] PCT Application  
By:  Inventors or [ ] Present Owners

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS: (inventor(s) or person(s) or entity(ies) who own the invention)

Timothy OBER  
9 Birch Lane  
Atkinson, NH 03811  
U.S.  
Nationality

Peter REED  
1 Bancroft Avenue  
Beverly, MA 01915  
U.S.  
Nationality

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

Recorded on \_\_\_\_\_ Reel \_\_\_\_\_  
Frame \_\_\_\_\_

hereby sells, assigns and transfers to

ASSIGNEE:

Information Resource Engineering, Inc.  
(Type or print name of ASSIGNEE)

8029 Corporate Drive  
Address

Baltimore, Maryland 21236  
U.S.A.  
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE,

(complete one of the following)

- the entire right, title and interest  
 an undivided \_\_\_\_\_ percent (\_\_\_\_%) interest

for the United States and its territorial possessions

and in all foreign countries, including all rights to claim priority,  
in and to any and all improvements which are disclosed in the invention entitled:

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### CRYPTOGRAPHIC KEY MANAGEMENT SCHEME

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and which is found in

(check and complete (a), (b), (c), (d), (e), (f), or (g))

- (a)  U.S. patent application executed on even date herewith  
(b)  U.S. patent application executed on \_\_\_\_\_  
(c)  U.S. provisional application naming the above inventor(s) for the above-identified invention.  
[ ] Express Mail label No.: \_\_\_\_\_, mailed: \_\_\_\_\_  
[ ] To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known  
(d)  U.S. application Serial No. 09/154,133 filed on September 16, 1998  
(e)  International application No. PCT/\_\_\_\_\_  
(f)  U.S. Patent No. \_\_\_\_\_ issued \_\_\_\_\_  
[ ] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.  
(g)  and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and

deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this

**WARNING:** Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Date: X 4/23/98

Date of signing

Timothy Ober

Timothy Ober

Date: X 4/23/98

Date of signing

Peter Reed

Peter Reed

(If ASSIGNOR is a legal entity, complete the following information)

Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

\_\_\_\_\_  
Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

[ ]Notarization or Legalization Page Added.

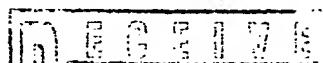
MARCH 25, 1999



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

HOFFMANN & BARON, LLP  
GERALD T. BODNER, ESQ.  
350 JERICHO TURNPIKE  
JERICHO, NY 11753

PTAS



\*100921538A\*

APR - 5 1999

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/04/1998

REEL/FRAME: 9635/0366  
NUMBER OF PAGES: 4

**BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS)**

**ASSIGNOR:**

OBER TIMOTHY

DOC. DATE: 11/23/1998

**ASSIGNOR:**

REED PETER

DOC. DATE: 11/30/1988

**ASSIGNEE:**

INFORMATION RESOURCE ENGINEERING,  
INC.  
8029 CORPORATE DRIVE  
BALTIMORE, MARYLAND 21236

SERIAL NUMBER: 09154133  
PATENT NUMBER:

MFD 12-4-98  
Tab settings → → →

12-15-1998

SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of I

100921538

I attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Timothy Ober                    Peter Reed  
 9 Birch Lane                    1 Bancroft Avenue  
 Atkinson, NH 03811            Beverly, MA 01915

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger         |
| <input type="checkbox"/> Security Agreement    | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____           |   |

Execution Date: 11.23.98

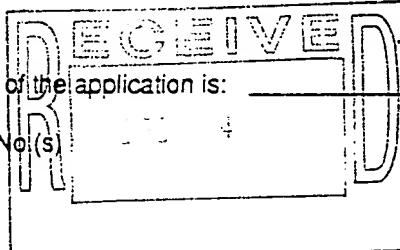
## 2. Name and address of receiving party(ies):

Name: Information Resource Engineering, Inc.

Internal Address: \_\_\_\_\_

Street Address: 8029 Corporate Drive

City: Baltimore State: MD ZIP: 21236

Additional name(s) & address(es) attached?  Yes  No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

09/154,133

## B. Patent No(s): \_\_\_\_\_

20236 0000068 09154133

01/01/98

40.00 CP

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gerald T. Bodner, Esq.

Internal Address: Hoffmann &amp; Baron, LLP

6. Total number of applications and patents involved: 1

Street Address: 350 Jericho Turnpike

7. Total fee (37 CFR 3.41): \$ 40.00

 Enclosed Authorized to be charged to deposit account

City: Jericho State: NY ZIP: 11753

## 8. Deposit account number:

08-2461

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gerald T. Bodner

Name of Person Signing

621-31

Our Docket No.: \_\_\_\_\_

Gerald T. Bodner

Signature

Nov. 30 1998

Date

Total number of pages comprising cover sheet:

4